FIG.1

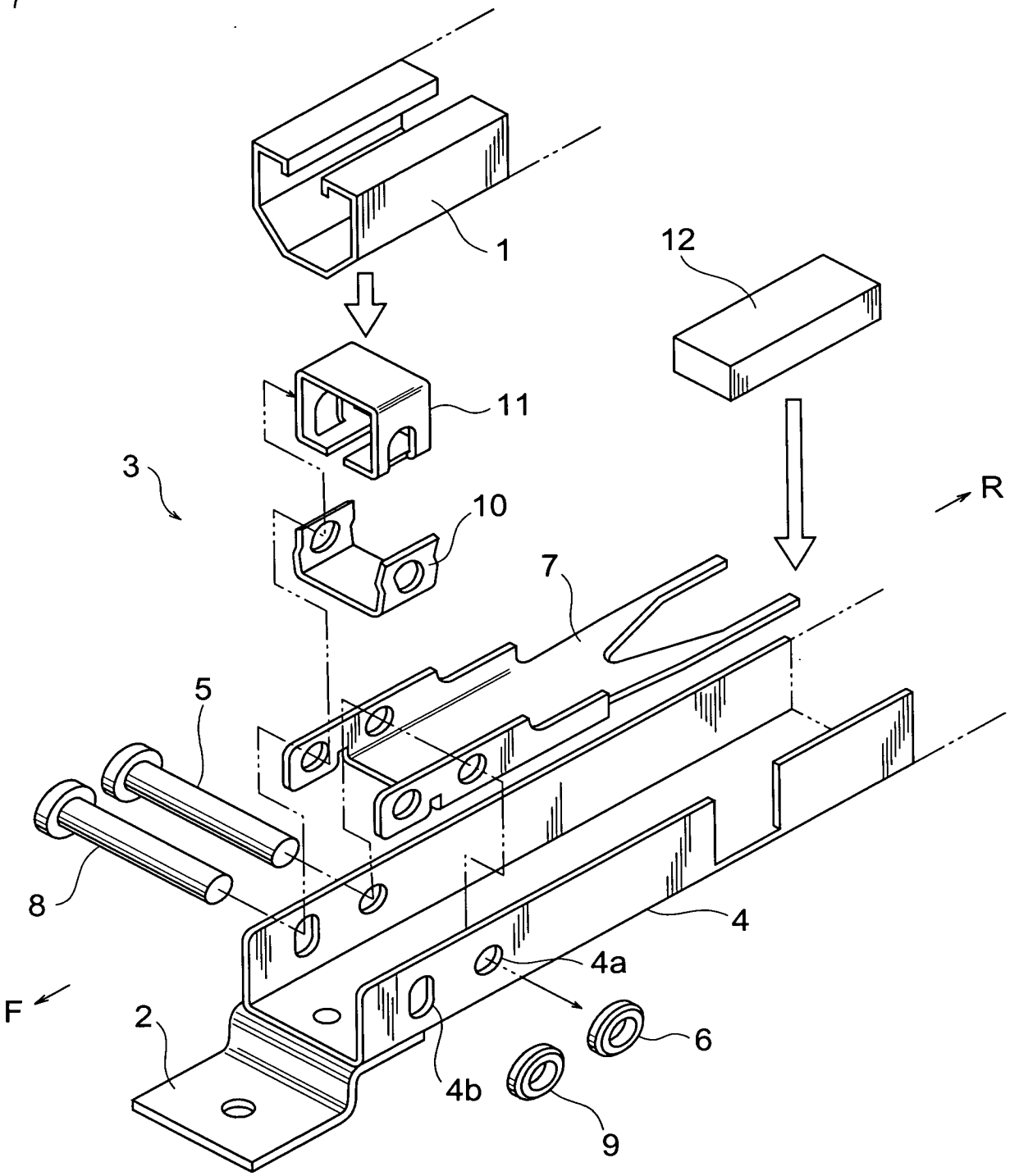


FIG.2

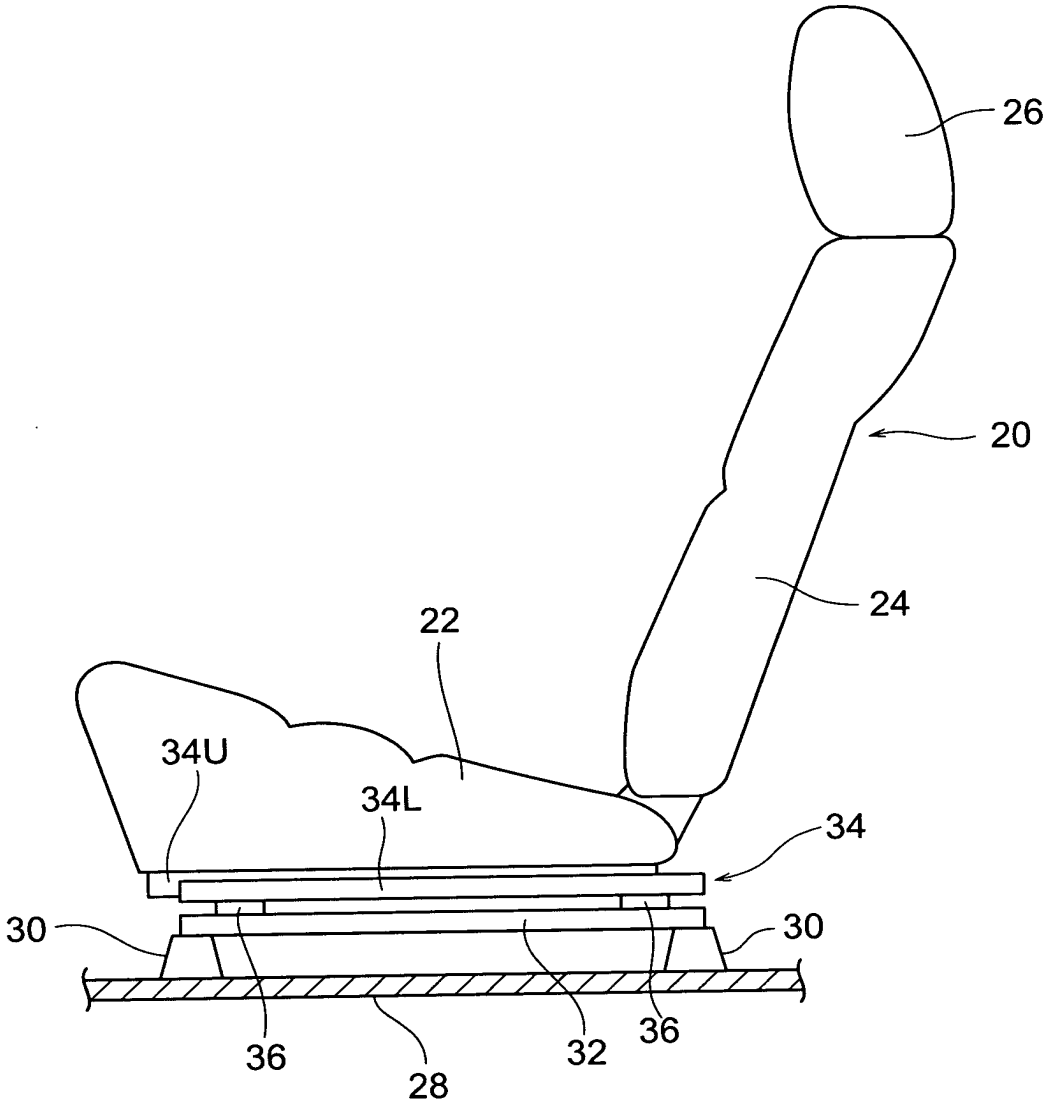


FIG.3

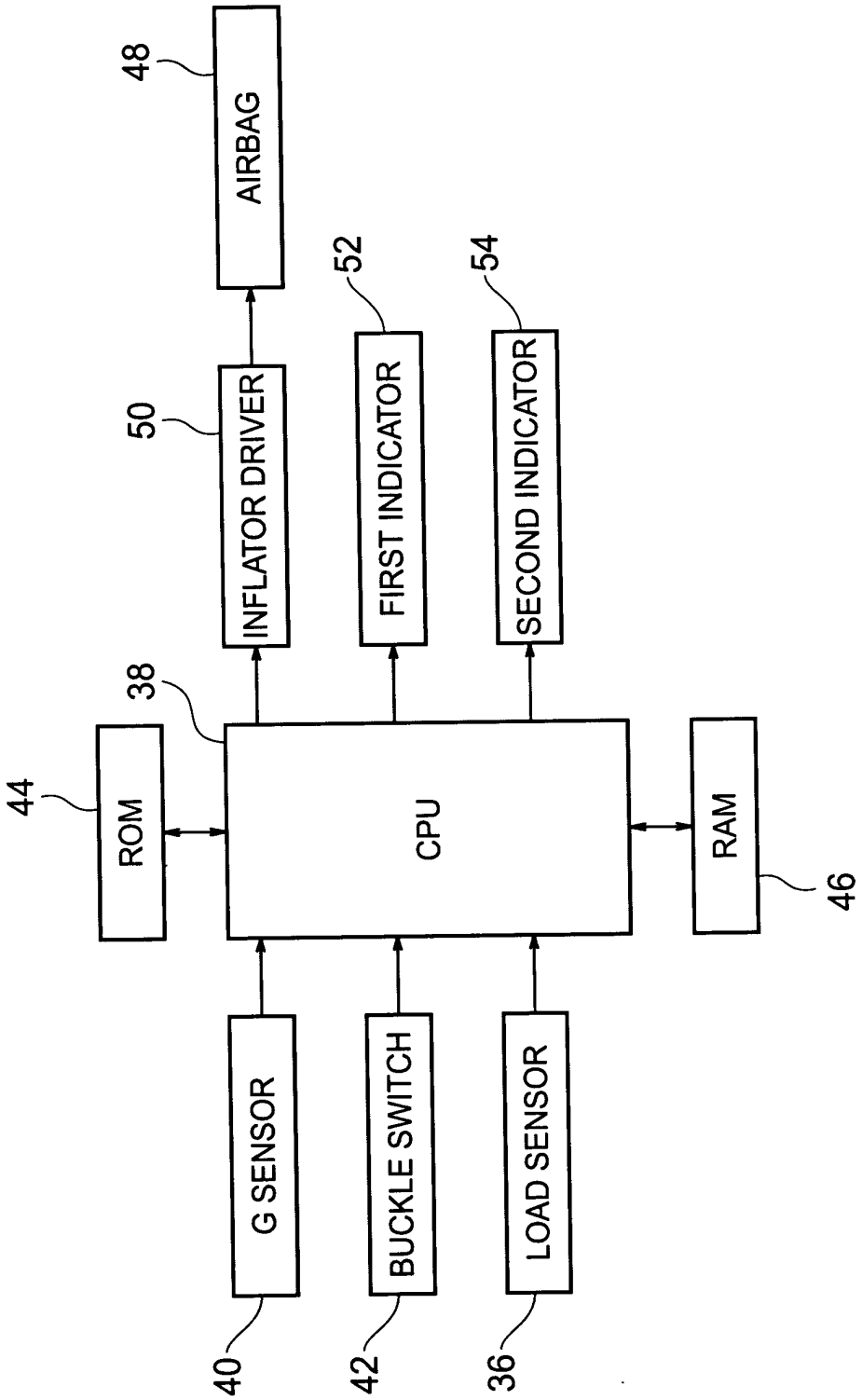

48
AIRBAG
50
INFLATOR DRIVER
52
FIRST INDICATOR
54
SECOND INDICATOR
38
CPU
44
ROM
RAM
46
G SENSOR
BUCKLE SWITCH
LOAD SENSOR
40
42
36

FIG.4

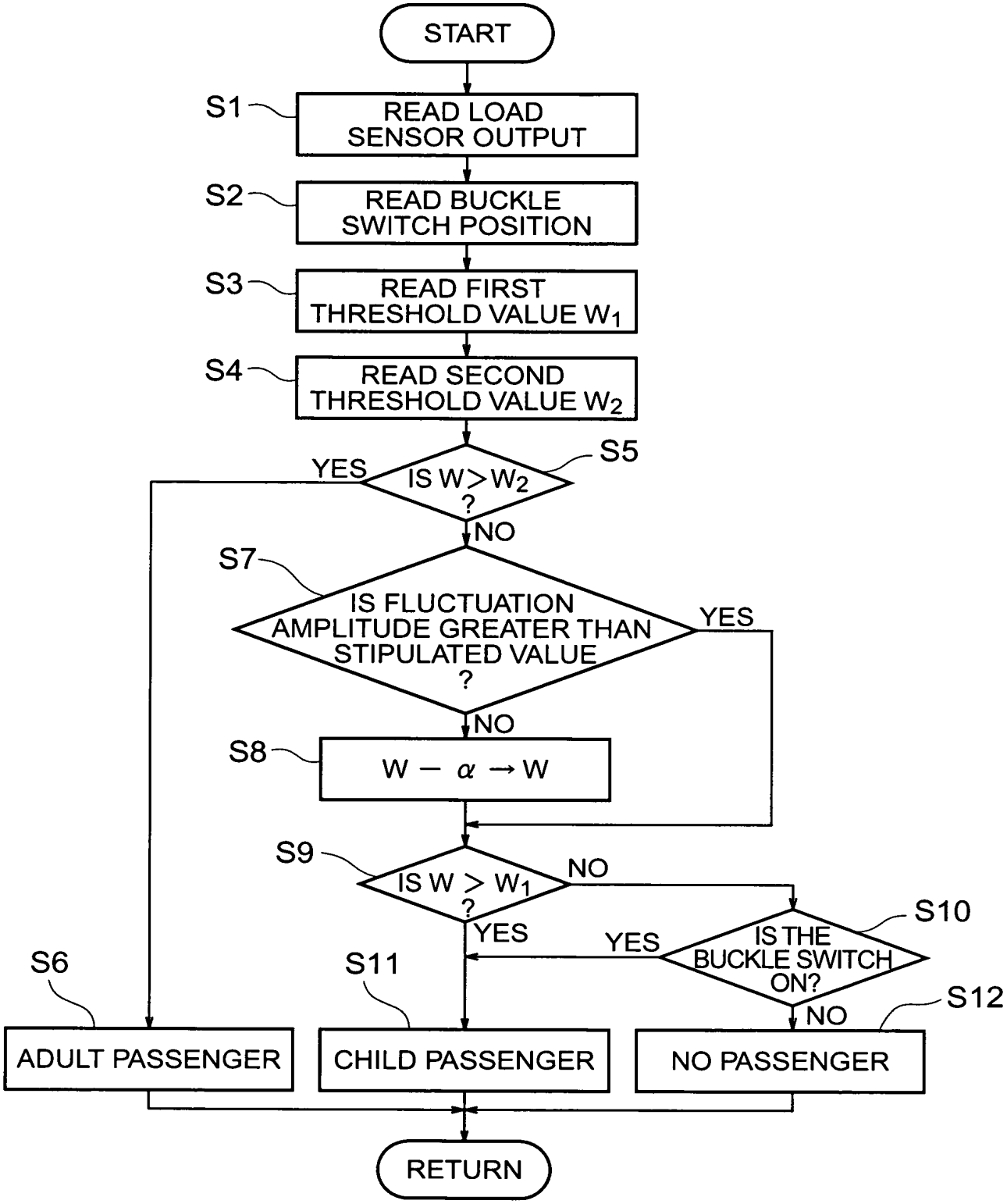

START
S1
READ LOAD SENSOR OUTPUT
S2
READ BUCKLE SWITCH POSITION
S3
READ FIRST THRESHOLD VALUE W1
S4
READ SECOND THRESHOLD VALUE W2
S5
IS W > W2 ?
YES
NO
S7
IS FLUCTUATION AMPLITUDE GREATER THAN STIPULATED VALUE ?
YES
NO
S8
W − α → W
S9
IS W > W1 ?
NO
YES
S10
IS THE BUCKLE SWITCH ON?
YES
NO
S6
S11
S12
ADULT PASSENGER
CHILD PASSENGER
NO PASSENGER
RETURN

FIG.5

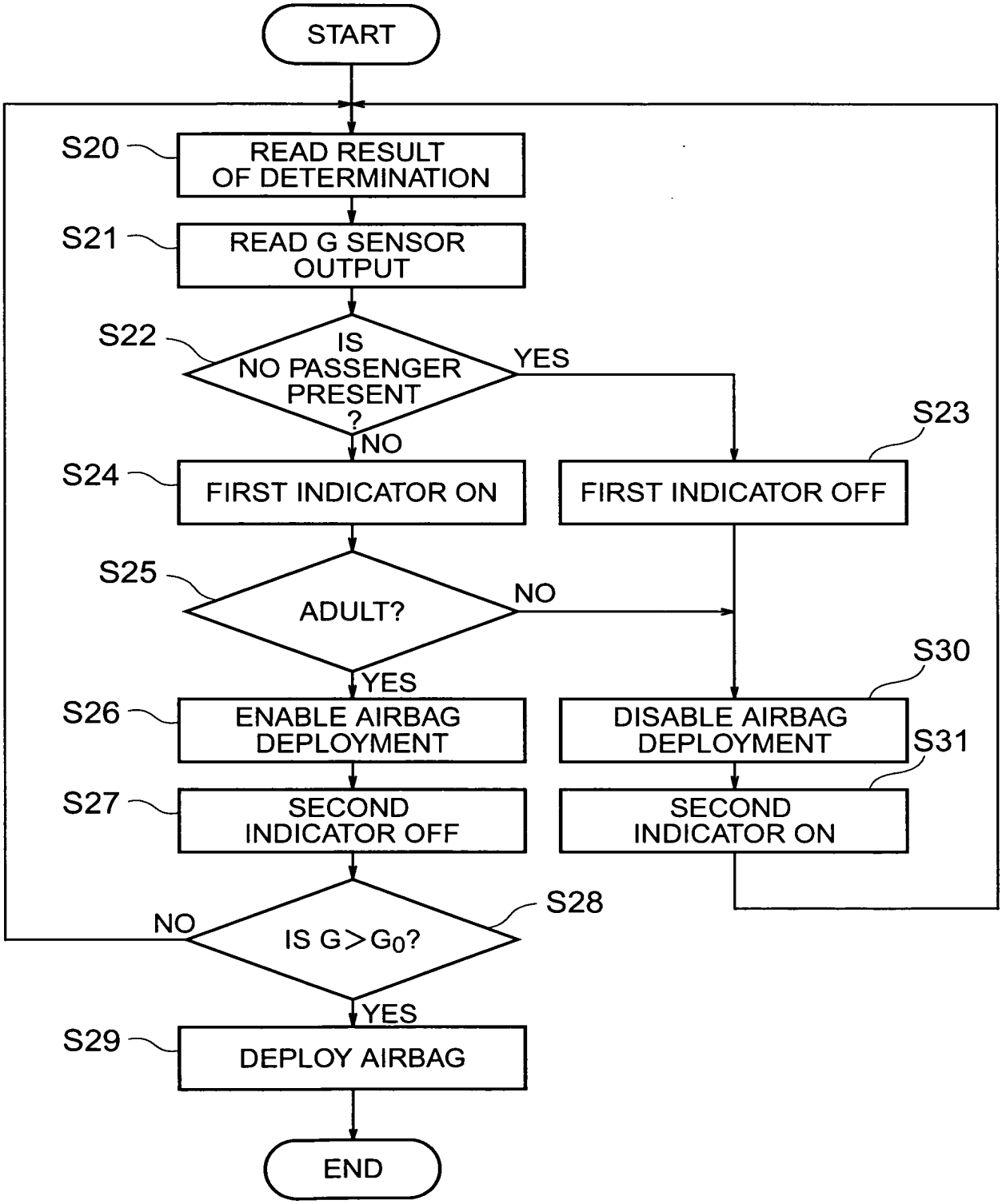

START
S20
READ RESULT OF DETERMINATION
S21
READ G SENSOR OUTPUT
S22
IS NO PASSENGER PRESENT ?
YES
NO
S23
FIRST INDICATOR OFF
S24
FIRST INDICATOR ON
S25
ADULT?
NO
YES
S30
S26
ENABLE AIRBAG DEPLOYMENT
DISABLE AIRBAG DEPLOYMENT
S31
S27
SECOND INDICATOR OFF
SECOND INDICATOR ON
S28
NO
IS G>G0?
YES
S29
DEPLOY AIRBAG
END

FIG.6

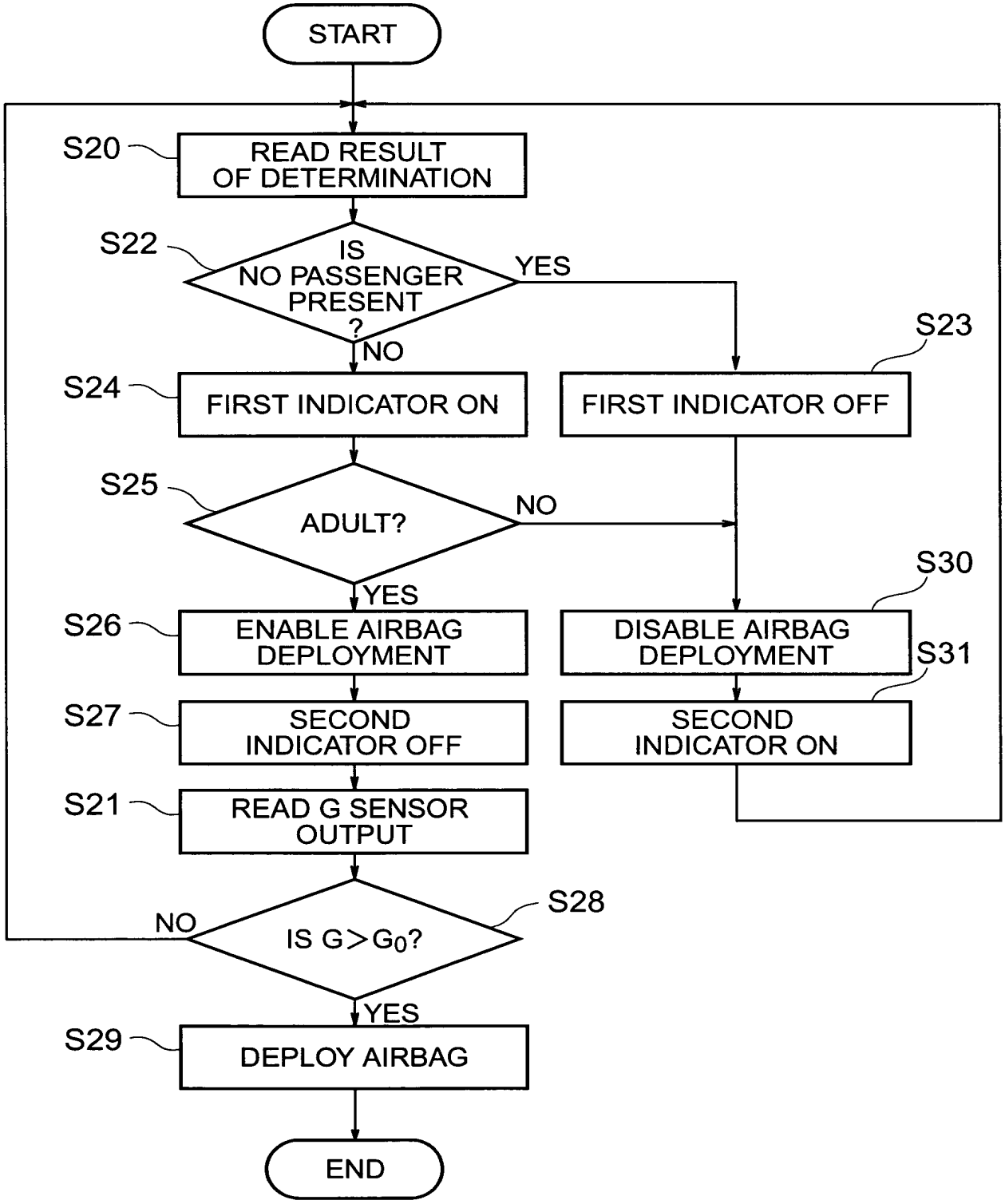
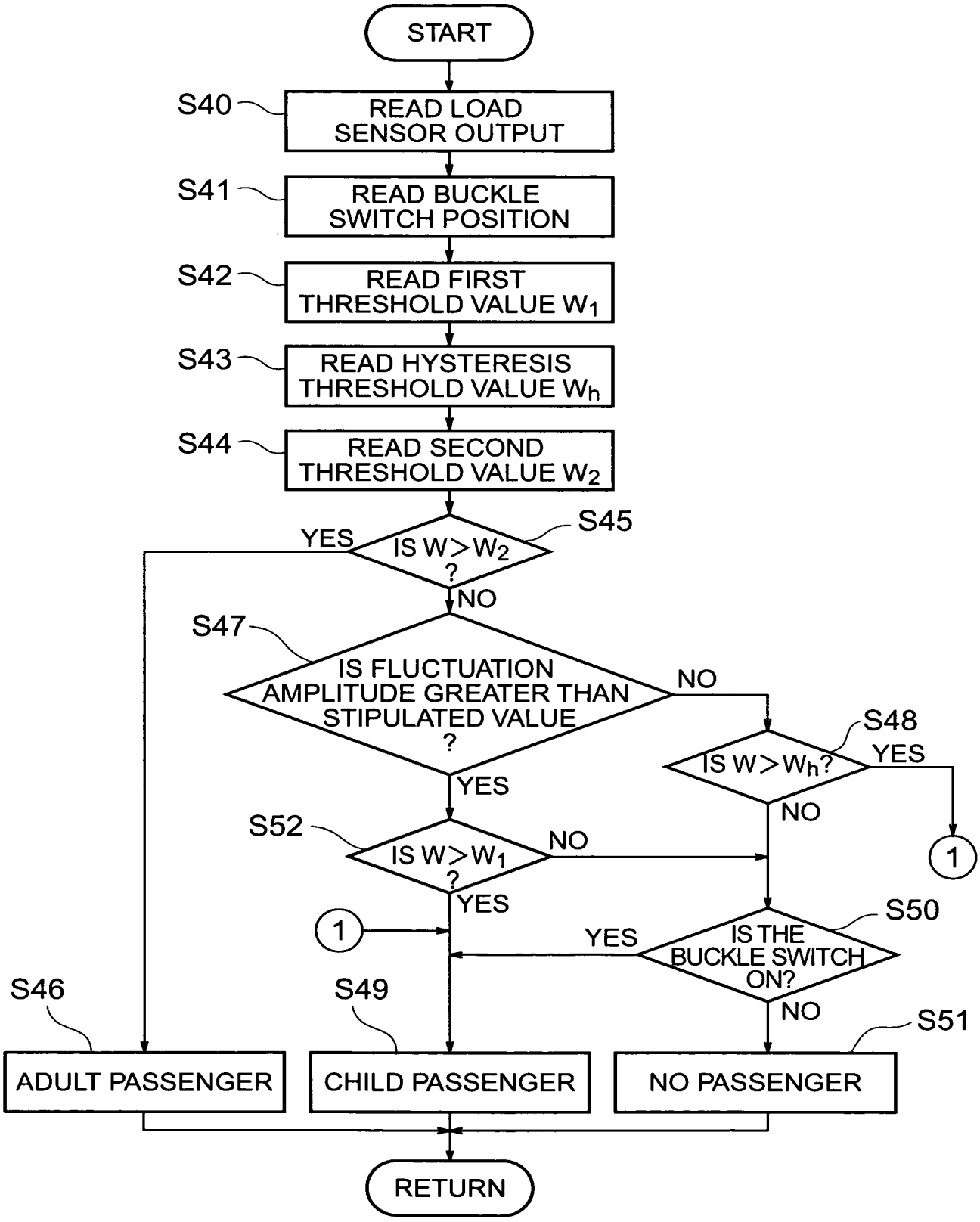

START
S20
READ RESULT OF DETERMINATION
S22
IS NO PASSENGER PRESENT ?
YES
NO
S23
S24
FIRST INDICATOR ON
FIRST INDICATOR OFF
S25
ADULT?
NO
YES
S30
S26
ENABLE AIRBAG DEPLOYMENT
DISABLE AIRBAG DEPLOYMENT
S31
S27
SECOND INDICATOR OFF
SECOND INDICATOR ON
S21
READ G SENSOR OUTPUT
S28
NO
IS G>G0?
YES
S29
DEPLOY AIRBAG
END

FIG.7


START
S40
READ LOAD SENSOR OUTPUT
S41
READ BUCKLE SWITCH POSITION
S42
READ FIRST THRESHOLD VALUE W1
S43
READ HYSTERESIS THRESHOLD VALUE Wh
S44
READ SECOND THRESHOLD VALUE W2
S45
IS W>W2 ?
YES
NO
S47
IS FLUCTUATION AMPLITUDE GREATER THAN STIPULATED VALUE ?
NO
YES
S48
IS W>Wh?
YES
NO
1
S52
IS W>W1 ?
NO
YES
1
S50
IS THE BUCKLE SWITCH ON?
YES
NO
S46
S49
S51
ADULT PASSENGER
CHILD PASSENGER
NO PASSENGER
RETURN